

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT:
 - (A) NAME: Bundesrepublik Deutschland, letztvertreten durch den Präsidenten des Paul Ehrlich Instituts
 - (B) STREET: Paul Ehrlich Straße 51-59
 - (C) CITY: Langen
 - (E) COUNTRY: Germany
 - (F) ZIP: 63225
- (ii) TITLE OF INVENTION: Retroviral vectors, methods of their preparation and their use for gene transfer into CD4-positive cells
- (iii) NUMBER OF SEQUENCES: 12
- (iv) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: Windows 3.11
 - (D) SOFTWARE: PatentIn #1.0, Version #1.25

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 25 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: synthetic oligonucleotide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

CTAGCTAGCA TGCCCCTAGG ATCAGAAGAA AGAAG

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(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: synthetic oligonucleotide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 30 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: synthetic oligonucleotide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CAAGGCTGAG ACAAGCTTGG TGTCATTCC

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(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 48 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: synthetic oligonucleotide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

GTTAGGCAGG GTTACGCGGC CGCTTAACCA CAGATCCATA TCCACCCG

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(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 50 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: synthetic oligonucleotide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

CGGGTGGATA TGGATCTGTG GTTAAGCGGC CGCCTAACCC TGCCTAACCC

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(2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 48 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: synthetic oligonucleotide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

CGGGTGGATA TGGATCTGTG GTTAAGCGGC CGCCTAACCC TGCCTAACCC

TACTCTCCTC TTTCTCGCGG CCGCTAAATC CACCCGTGGA AGGGACAG

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(2) INFORMATION FOR SEQ ID NO:7:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 53 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: synthetic oligonucleotide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

TCCCTTCCAC GGGTGGATTT AGCGGCCGCG AGAAAGAGGA GAGTAACCCT GCC

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(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 41 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: synthetic oligonucleotide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

ATCCACCCGT GGAAGGGCGG CCGCTAAAC GCAGAAGGGC C

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(2) INFORMATION FOR SEQ ID NO:9:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 43 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: synthetic oligonucleotide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

CCCTTCTGCG TTTTAGCGGC CGCCCTTCCA CGGGTGGATA TGG

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(2) INFORMATION FOR SEQ ID NO:10:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 56 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: synthetic oligonucleotide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

AAAAGGAAAA GCGGCCGCTC GATTAGTCCA ATTTGTTAAA GACAGGATAT CAGTGG

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(2) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 51 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: synthetic oligonucleotide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

AAAAGGAAAA GCGGCCGCGA CAGGATATCA GTGGTCCAGG CTCTAGTTTT G

51

(2) INFORMATION FOR SEQ ID NO:12:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 49 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: synthetic oligonucleotide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

AAAAGGAAAA GCGGCCGCCT ATGGCTCGTA CTCTATAGGC TTCAGCTGG

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